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Application Number 10/602,517

Filing Date 06/24/2003

First Named Inventor Jack Chen

Group Art Unit

Examiner Name

Total Number of Pages in This Submission 4+ref Attorney Docket Number M311

ENCLOSURES (check all that apply)

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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

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Robert L. Marsh

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Robert L. Marsh

Date

May 27, 2004

CERTIFICATE OF MAILING

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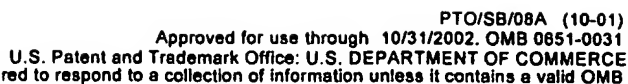
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Jack Chen
Serial No. : 10/602,517
Filed on : June 24, 2003
For : Device for Measuring the Volume
of Fluid in a Tank
Examiner :
Group Art :
Attorney Docket Number : M311

INFORMATION DISCLOSURE

Assistant Commissioner for
Patents
Washington, DC 20231

Sir:

If any additional charges or fees must be paid in connection with this communication, they may be paid out of our deposit account No. 50-0783.

Siegele, US Patent no. 5,711,354 issued January 27, 1998 discloses a device for measuring the amount of high purity chemical in a tank. The device includes a shaft 28 that extends into the liquid and contains therein one or more magnetically operated switches and a float 24 which moves vertically along the shaft 28. The operation of the device is described in column 13 line 27 through column 14 line 13.

Gonze, US Patent no. 4,782,699 issued November 8, 1988 discloses a device for measuring the amount of corrosive fuel in a fuel tank. It includes a pulse generator generating a pulse, which is applied to a resistance detector for a small fraction of a second, the pulse is generated once a second. By generating pulses, the deterioration

to the electronic parts caused by the combination of the fuel and the electrical charge is reduced.

Howeth, US Patent no. 4,554,494 issued November 19, 1985 discloses a fuel detector having a float that encircles a vertically oriented housing in the tank. A magnet is mounted on the float and the elevation of the magnet is detected by a Hall effect switch vertically moveable within the housing.

Bachman, US Patent no. 3,826,139 issued July 30, 1974 discloses a liquid level indicating device which includes a vertical member extending into the tank and a float. The device includes a plurality of detectors, each of which is positioned at a different level in the tank. Each of the detectors includes a float having a magnet therein and a detector to detect when the float and magnet are lifted upward by the level of the liquid.

Dumery US Patent no. 4,466,284 issued August 21, 1984 discloses a detector for detecting the volume of liquid in a tank comprising a plurality of spaced Hall effect sensors in a column, with a separate circuit to each of the Hall effect sensors. An annular float is fitted to slideable move vertically around a shaft containing the Hall effect sensors and magnets in the float trigger the sensors as the float moves vertically along the vertical shaft.

Chen, US Patent no. 6,369,690 B1 issued April 9, 2002 discloses an improved resistor card for use in a potentiometer for measuring the amount of liquid in a fuel tank.

Respectfully submitted,



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